

CE11 Concept Issues

- How are multiple streams of traffic coordinated?
 - RTA needed to initially coordinate?
 - Spacing and sequence only?
 - Combination of RTA and spacing/sequence?
 - RTA all the way?
 - Sequence only?
- How do we manage deviations in the merging or spacing interval?
 - Do aircraft need to maneuver to give more spacing control than the speed DOF alone?
 - Is maneuvering DOF sometimes preferred over speed DOF, even for small control adjustments?
- If maneuvering is needed, how should maneuvering be done?
 - FAST approach: fanning, base extension, corner-cutting DOFs, built in to on to onboard automation
 - TAP solution: change path with ground tool, then uplink
 - Manual with flight guidance?
- Can mixed operations be handled in the same stream?
- How are multiple merge points handled?
- What are the airspace design issues in facilitating merging and spacing?
 - Are specific merge points required?
 - Maneuver corridors needed? How to design?
- What kinds of constraints are needed on the en route operations to facilitate CE-11?
 - Crossing accuracy?
- What are procedures for building an unscheduled gap into the stream?
- How are aircraft with differing performance handled?
- What are the data exchange requirements?
- How do we design concept to accommodate a non-conforming aircraft?
- Is front-loading required to achieve benefits, or does CE-11 achieve its benefits without the need for front-loading?
- How do we design concept to accommodate dependent operations?
- How does the ATSP maintain responsibility for separation in the CE-11 environment? What are the concept design implications?
 - In-trail
 - Merging
 - Maneuvering